

of the Cretaceous Green Sand of Burlington Co., N. J., and showed how it differed from *B. Harlani*.

Prof. Hayden exhibited photographs of fossil fishes, from the Green River locality described at the last meeting, and described a new process of picture printing, from which a great improvement in the representations of natural objects may be expected; he also showed sketches of Geological sections of the Rocky Mountain rocks.

Dr. Brinton described the peculiar mode adopted by Mr. Charency for interpreting some curious inscriptions newly discovered at Pelenque.

The Society then proceeded to ballot for members, nominations Nos. 651, 652, 654 and 655, being postponed for the present.

When the ballot boxes were examined by the presiding officer, the following persons were declared duly elected members of the Society:

Major R. S. Williamson, U. S. Engineers.

Hon. J. D. Cox, of Washington, D. C.

Prof. Charles H. Hitchcock, of New York City.

Mr. Edmund Quiney, of Dedham, Mass.

And the Society was adjourned.

Stated Meeting, May 6, 1870.

Present, twenty-five members.

Letters accepting membership were received from Mr. J. D. Cox, dated Department of the Interior, Washington, April 26; Mr. Edmund Quiney, dated Dedham, Mass., April 20; and Mr. C. H. Hitchcock, dated Hanover, N. H., April 29, 1870.

Photographs of Prof. F. L. O. Röhrig, Cornell University, Ithaca, N. Y., and Dr. Horn, of Philadelphia, were received for the album.

Letters acknowledging the receipt of Proceedings and announcing transmissions, were read.

Donations for the Library were received from the Royal Academies and Societies at St. Petersburg, Munich, Göttingen, Copenhagen and Edinburgh; the Society at Marburg; the Geological Society at Berlin; Geographical Society at Paris, and Astronomical Society at London; the Institutes at Salem, Philadelphia, and Baltimore; the New Jersey and Pennsylvania Historical Societies; the State Geologist of New Jersey; Dr. Ruschenberger, Hon. W. D. Kelley, Mr. C. H. Hunt, Genl. Abbott, and the Public School Commissioners in St. Louis.

The death of a late member of the Society, Mr. Franklin Peale, of Philadelphia, on Thursday morning, May 5, aged 74, was announced by Mr. Robert Patterson, who, on motion of Mr. Fraley, was appointed to prepare an obituary notice of the deceased.

The Secretary communicated, as from the author, the second part of a Memoir on the Geological Position, Characters and Equivalencies of the Marshall Group, by Prof. Alex. Winchell, Part I. of which was published in the Proceedings, No. 81.

The Secretary gave the following account of beads from Indian graves on the Susquehanna River, now in the possession of Prof. S. S. Haldeman, of Columbia, Pa.

A bead found in an Indian grave near Bainbridge, Lancaster Co., Pa., in making the Pennsylvania Canal, about the year 1832. The bead is spherical, but made out of a section of a cylinder, or group of four concentric cylinders, the outer one blue, the middle one red, between these a thin one of white, and the fourth also white, forming an innermost thin lining to the red and a coating to the siphuncle or string-hole through the centre. The end section of the three inner cylinders is star-shaped, or, more properly, corrugated very regularly in 13 waves, like a watch pinion of 13 cogs. The white shining through the blue produces a banded appearance of the surface of the bead, the bands being alternately deep blue and light blue. No doubt the blue cylinder was corrugated on the outside surface, also, and then pressed or rolled smooth. The diameter of the bead across the string-

hole is $\frac{5}{16}$ in., and its length $\frac{1}{4}$ inch. Its general appearance can be known from that of the objects figured on Plate, p. 114, Proceedings Amer. Philos. Soc., Dec. 5, 1862, especially Fig. 3.

With this bead others were found, made of segments of blue glass cylinders about $\frac{1}{16}$ inch diameter, and about half an inch long; others of Venetian red color, of the same diameter, but an inch or an inch and a half long. See similar figures in Schoolcraft. Also, a string of very small copper beads, above $\frac{1}{8}$ of an inch large, every way, made of bits of flat copper wire coiled to receive a string.

Dr. Allen presented for publication in the Transactions, a paper "On some of the effects of age as observed in the osseous system," with three plates, which was referred to a committee consisting of Dr. Ruschenberger, Dr. Leidy and Prof. Lesley.

Prof. Cope presented a paper entitled, "Observations on the Fishes of the Tertiary Shales of Green River, Wyoming," collected by Dr. Hayden. (See Proceedings, page 380.)

Dr. Hayden presented for publication three papers, descriptive of certain elaborately drawn and colored sections of rocks exposed in the cuttings of the Union Pacific Railroad. (See Proceedings, about page 419.)

Professor Cope exhibited and discussed a new Dycynodont cranium from the Trias of South Africa, and compared it with some evidently Dycynodont tusks from the Triassic rocks of the Phoenixville tunnel, on the Reading Railroad, thirty miles northwest of Philadelphia, which he exhibited to sustain his remarks. (See Proceedings, about page 418.)

Mr. James returned to the custody of the Society, the MSS. of Pursh's Botanical Journal, loaned to him for publication in 1869; and, with the MSS., presented to the Library of the Society a copy of the published Journal, with MSS. notes of his own interleaved.

Mr. James returned, also, certain mosses, loaned to him from the Muhlenberg Herbarium, for comparison.

Pending nominations Nos. 651 to 659 were read, and the Society was adjourned.

Provost C. J. Stillé then read an obituary notice of the late Mr. Horace Binney, Jun. (See Proceedings, page 371.)